PHASE I CERTIFICATION (REVIEW)

EXAMPLE #1

<u>Site Conditions:</u> 3-bedroom house, no ground water or ledge encountered,

percolation rate readings were as follows:

Date: Thurs. 3/15/97

Depth: 30"

Presoak: 2 hours-dry

TIME	READINGS
2:15	3"
2:25	5 1/2"
2:35	7"
2:45	8"
2:55	8 3/4"
3:05	9 1/2"
3:15	10 1/4"

- 1. What would be the design percolation rate? _____(min/in)
- 2. How much effective leaching area is required? _____(S.F.)
- 3. How many linear feet of 12" high trenches would be required? _____(ft)
- 4. How many linear feet of 30" wide trenches would be required? _____(ft)
- 5. What would be the minimum the center-to-center distance required between the 30" wide trenches? ______(ft)

EXAMPLE #2

Site Conditions: 5-bedroom house, maximum ground water at 38", ledge found at 60", slope of the ground in the proposed leaching area = 4.5%,

percolation rate readings were as follows:

DATE: Monday 2/27/96

DEPTH: 18" PRESOAK: 4 hours

TIME	READINGS		
3:55	3 1/4"		
4:05	4 1/2"		
4:15	5 1/8"		
4:30	5 3/4"		
4:42	6 1/8"		
4:58	6 1/2"		
5:20	7"		

- 6. What would be the design percolation rate? _____(min/in)
- 7. What is the minimum size septic tank required? _____(gal)
- 8. How much effective leaching area is required? _____(SF)
- 9. How many linear feet of 12" galleries would be required? _____(ft)
- 10. What would be the maximum depth the bottom of the system can be below the original grade? _____(inches)
- 11. Using MLSS, the minimum spread of this system shall be:

$$MLSS = (HF)$$
 $X (FF)$ $Y (PF)$ $Y (PF)$

EXAMPLE #3

Site (Conditions: 12,200 S.F. office building, maximum groundwater is 44" below grade, ledge is 7' below grade, the percolation rate is 25 min/inch at 24" depth.			
12.	What would be the total daily design flow?(gpd)			
13.	Is the area defined as of "Special Concern"?(Y/N)			
14.	Does this plan have to be sent to the State Health Department for review/approval?(Y/N)			
15.	How much effective leaching area is required?(S.F.)			
16.	How much effective leaching area would five (5) - 70' rows of High Capacity EnviroChambers provide?(S.F.)			
17.	An engineer proposes to utilize 30" galleries. The system will consist of four (4) rows. Each row will have 7 gallery units (each 8' long), surrounded by one foot of stone. How much effective leaching area would be credited for each row ?(S.F.) Would the total system meet code requirements for sizing?(Y/N)			
18.	What is the maximum depth the bottom of the system can be below original grade?(inches)			

EXAMPLE #4

Site	Conditions:	114 seat restaurant w/rest maximum ground water is ground in proposed area of the percolation rate is 6 m	s at 40", no led lrops 7 feet act	lge was found, slope of coss a 44 foot distance,	
19.	What would be	the daily design flow?	(gpd)	
20.	Is the area defined as of "Special Concern"?(Y/N)				
21.	Does the plan have to be sent to the State Health Department for review/approval? $\underline{\hspace{1cm}}(Y/N)$				
22.	How much effe	ective leaching area is requi	red?	(S.F.)	
23.	Would leaching	g pits be appropriate for thi	s site?	(Y/N)	
24.	will be utilized is surrounded b plan shows a 2' the units in ord leaching area for	plan is submitted. The plant. Each row will consist of by a foot of stone on the sid?" concrete "tee-pee" type er to increase the height to be each of the above rows?	9 units (each 8 es and ends. Tgallery, with 3 30". What wo	'long). The entire row The cross-section on the of stone placed above buld be the effective (S.F.) Where should	
25.	•	ates that 8 of the above row m meet sizing requirements			
26.	Using MLSS, t	he minimum spread of this	system shall b	e:	
	MLSS = (HF)	X (FF)	_ X (PF)	=(ft)	

Example #5

Site	Conditions:	Retail shopping or ground water at 33 downgrade of pro- rate is 8 min./inch GPD.	8", ledge found a posed leaching a	at 60", slope area = 12%, t	within and the percolation	
27.	How much effective leaching area is required?(S.F.)					
28.	Using MLSS, the minimum spread of this system shall be:					
	MLSS = (HF)	X (FF)	X (PF)	=_	(ft)	
29.	many linear fee	e design engineer, wet of system would	be needed to pro	•		
30.		ou configure the abo		ler to provide	e the necessary	